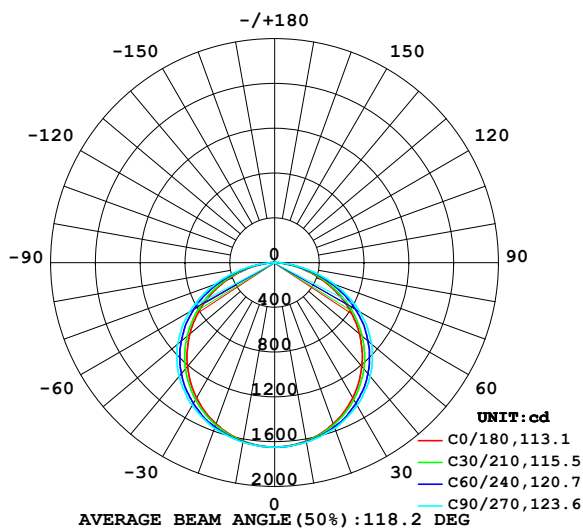


LUMINAIRE PHOTOMETRIC TEST REPORT

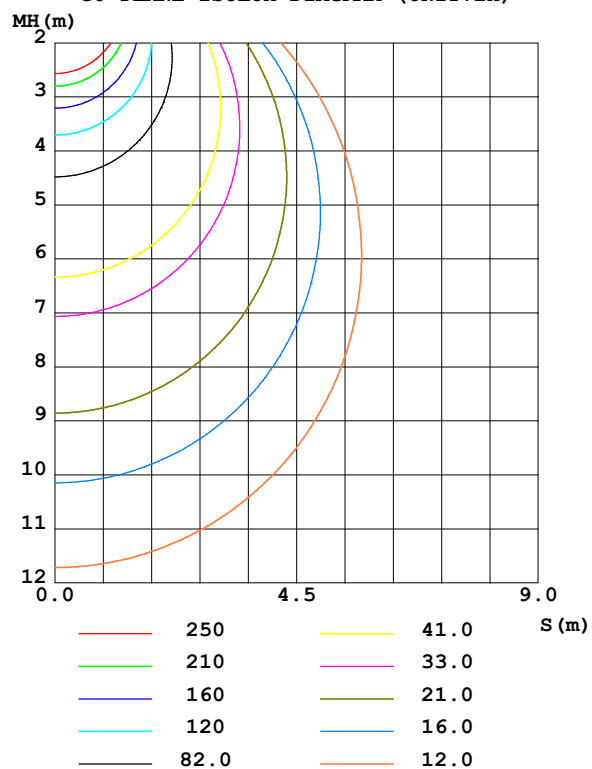
Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.60 lm/W			
MODEL		Imax (cd)	1647	S/MH(C0/180)	1.26
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5000.7	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	5000.68	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.948	η down (%)	99.8	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

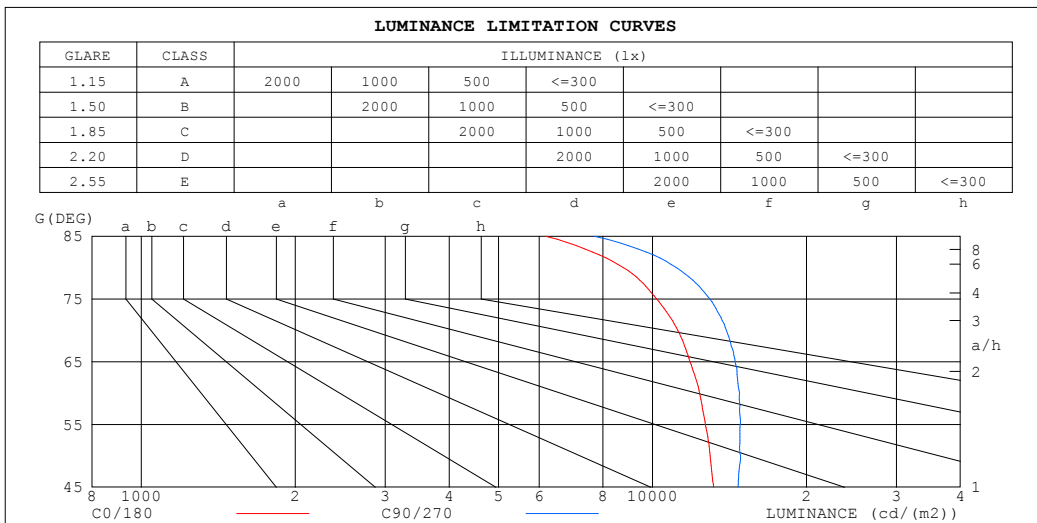
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1617	1623	1628	1623	1617	1623	1628	1623	0- 10	156.1	156.1	3.12,3.12
20	1532	1552	1575	1552	1532	1552	1575	1552	10- 20	450.0	606.1	12.1,12.1
30	1395	1437	1472	1437	1395	1437	1472	1437	20- 30	691.3	1297	25.9,25.9
40	1211	1266	1326	1266	1211	1266	1326	1266	30- 40	848.8	2146	42.9,42.9
50	989.1	1056	1134	1056	989.1	1056	1134	1056	40- 50	900.8	3047	60.9,60.9
60	734.0	796.5	877.9	796.5	734.0	796.5	877.9	796.5	50- 60	834.0	3881	77.6,77.6
70	455.1	503.1	566.0	503.1	455.1	503.1	566.0	503.1	60- 70	649.2	4530	90.6,90.6
80	180.8	201.2	229.5	201.2	180.8	201.2	229.5	201.2	70- 80	372.2	4902	98,98
90	4.072	2.745	2.178	2.745	4.072	2.745	2.178	2.745	80- 90	88.95	4991	99.8,99.8
100	0.8486	0.7163	0.3844	0.7163	0.8486	0.7163	0.3844	0.7163	90-100	0.7613	4992	99.8,99.8
110	1.035	0.9886	0.5793	0.9886	1.035	0.9886	0.5793	0.9886	100-110	0.8388	4993	99.8,99.8
120	1.306	1.222	0.7753	1.222	1.306	1.222	0.7753	1.222	110-120	1.020	4994	99.9,99.9
130	1.665	1.545	1.171	1.545	1.665	1.545	1.171	1.545	120-130	1.158	4995	99.9,99.9
140	2.371	2.198	1.824	2.198	2.371	2.198	1.824	2.198	130-140	1.390	4997	99.9,99.9
150	3.221	2.904	2.553	2.904	3.221	2.904	2.553	2.904	140-150	1.578	4998	99.9,99.9
160	3.453	3.047	2.866	3.047	3.453	3.047	2.866	3.047	150-160	1.408	5000	100,100
170	3.268	3.045	2.944	3.045	3.268	3.045	2.944	3.045	160-170	0.8748	5000	100,100
180	3.363	3.112	2.993	3.112	3.363	3.112	2.993	3.112	170-180	0.2947	5001	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.7℃
 Operators:Alan Wang
 Test Date:2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:42.4%
 Test Distance:1.900m [K=1.0924]
 Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500:

LUMINANCE LIMITATION CURVES

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6173	7693
80	8769	11134
75	10194	12937
70	11210	13941
65	11841	14501
60	12366	14792
55	12691	14846
50	12964	14858
45	13165	14703

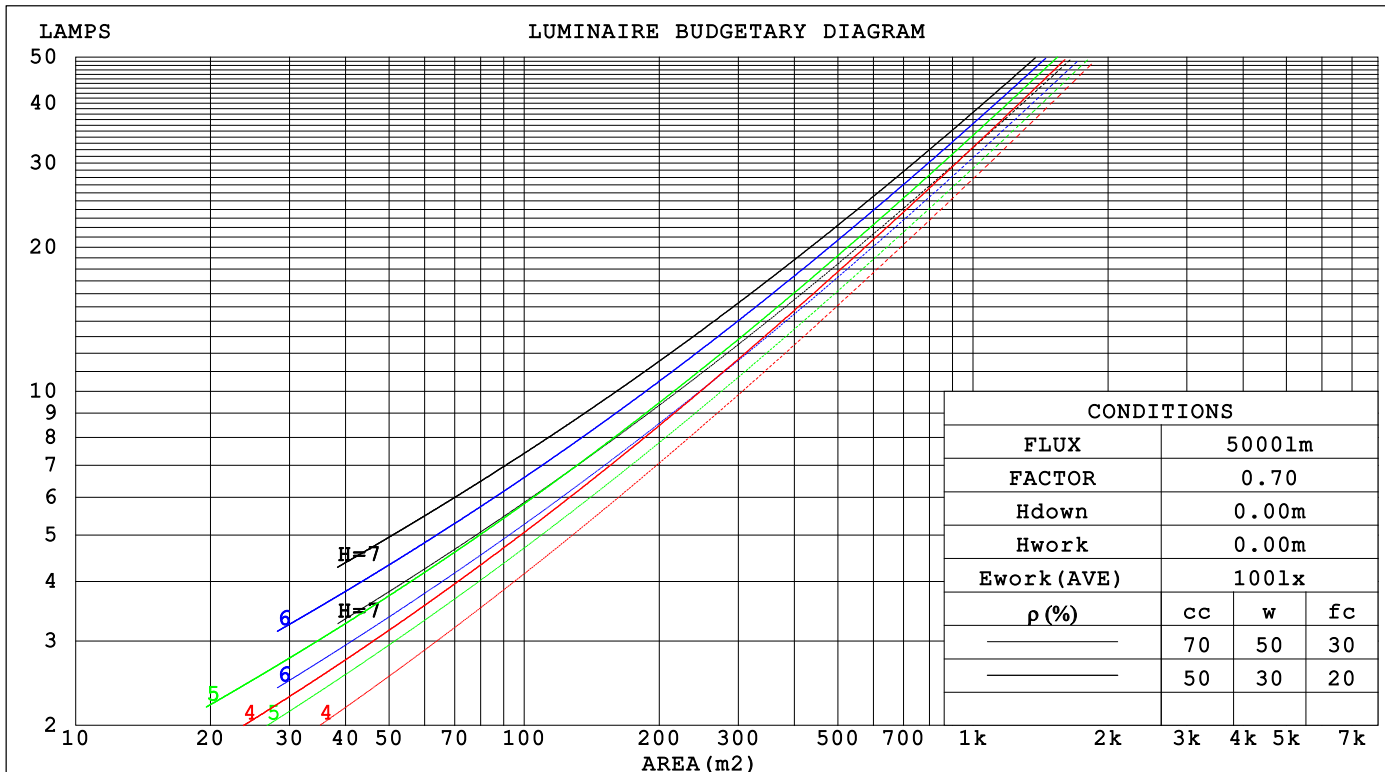
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.41	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26
10.0	.39	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

WEC AND CCEC

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.314	.178	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.270	.156	.050		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041		
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.230	.123	.037	.222	.120	.037		
5.0	.233	.119	.034	.229	.117	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030		
7.0	.201	.099	.028	.197	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027		
8.0	.188	.092	.026	.184	.091	.026	.179	.089	.025	.173	.088	.025	.168	.086	.025		
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.023	.163	.081	.023	.158	.080	.023		
10.0	.165	.079	.022	.163	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.182	.158	.135	.156	.135	.117	.107	.093	.081	.061	.054	.047	.020	.017	.015		
2.0	.174	.133	.099	.149	.115	.086	.102	.079	.060	.059	.046	.035	.019	.015	.011		
3.0	.167	.116	.075	.143	.100	.065	.098	.069	.046	.057	.041	.027	.018	.013	.009		
4.0	.159	.103	.059	.137	.089	.051	.094	.062	.036	.054	.036	.021	.017	.012	.007		
5.0	.152	.092	.048	.130	.080	.042	.090	.056	.030	.052	.033	.018	.017	.011	.006		
6.0	.145	.084	.040	.124	.073	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005		
7.0	.138	.077	.034	.118	.067	.030	.082	.047	.021	.048	.028	.013	.015	.009	.004		
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.019	.045	.026	.011	.015	.008	.004		
9.0	.125	.066	.026	.108	.057	.023	.075	.040	.016	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.042	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

UGR(Unified Glare Rating) Table

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ETi Solid State lighting, Inc.					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.7	23.2	21.9	23.4	23.6	22.5	24.0	22.7	24.2	24.4
3H	23.2	24.6	23.5	24.8	25.1	24.2	25.6	24.5	25.8	26.1
4H	23.7	25.1	24.0	25.3	25.6	24.8	26.2	25.1	26.4	26.7
6H	24.1	25.4	24.4	25.7	25.9	25.3	26.5	25.6	26.8	27.1
8H	24.2	25.4	24.6	25.7	26.0	25.4	26.6	25.7	26.9	27.2
12H	24.2	25.4	24.6	25.7	26.0	25.4	26.6	25.8	26.9	27.2
4H 2H	22.4	23.8	22.7	24.0	24.3	23.0	24.4	23.3	24.6	24.9
3H	24.0	25.2	24.4	25.5	25.8	24.9	26.1	25.2	26.4	26.7
4H	24.7	25.8	25.1	26.1	26.5	25.7	26.8	26.1	27.1	27.4
6H	25.2	26.2	25.6	26.5	26.9	26.3	27.2	26.7	27.6	27.9
8H	25.4	26.3	25.8	26.6	27.0	26.4	27.3	26.8	27.7	28.1
12H	25.4	26.3	25.9	26.6	27.1	26.5	27.3	26.9	27.7	28.1
8H 4H	25.1	26.0	25.5	26.3	26.7	25.9	26.8	26.3	27.2	27.5
6H	25.7	26.4	26.1	26.8	27.3	26.6	27.4	27.0	27.8	28.2
8H	25.9	26.5	26.4	27.0	27.4	26.8	27.5	27.3	27.9	28.4
12H	26.0	26.6	26.5	27.0	27.5	27.0	27.6	27.5	28.0	28.5
12H 4H	25.1	25.9	25.5	26.3	26.7	25.9	26.7	26.3	27.1	27.5
6H	25.7	26.4	26.2	26.8	27.3	26.6	27.3	27.1	27.7	28.2
8H	26.0	26.6	26.5	27.0	27.5	26.9	27.5	27.4	27.9	28.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5001 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.6)
Area: 0.118701 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

UTILIZATION FACTORS TABLE

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

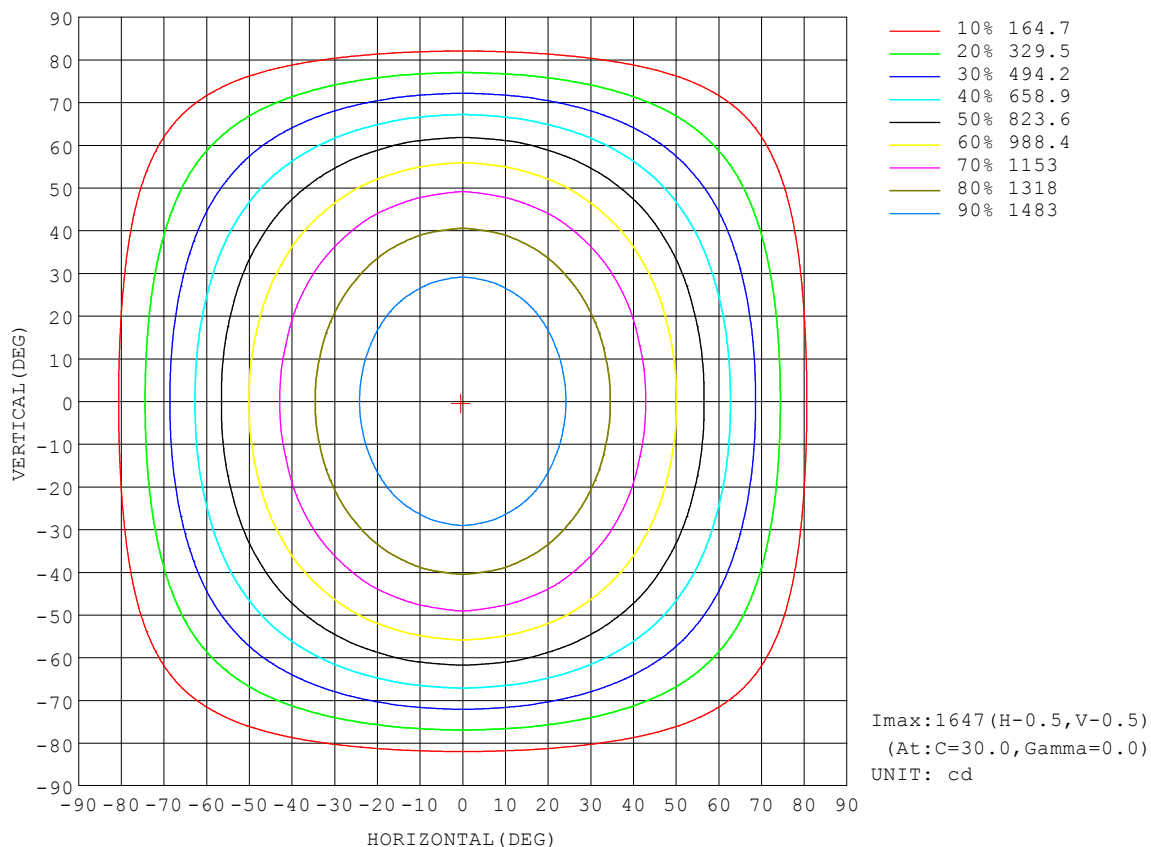
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ISOCANDELA DIAGRAM

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

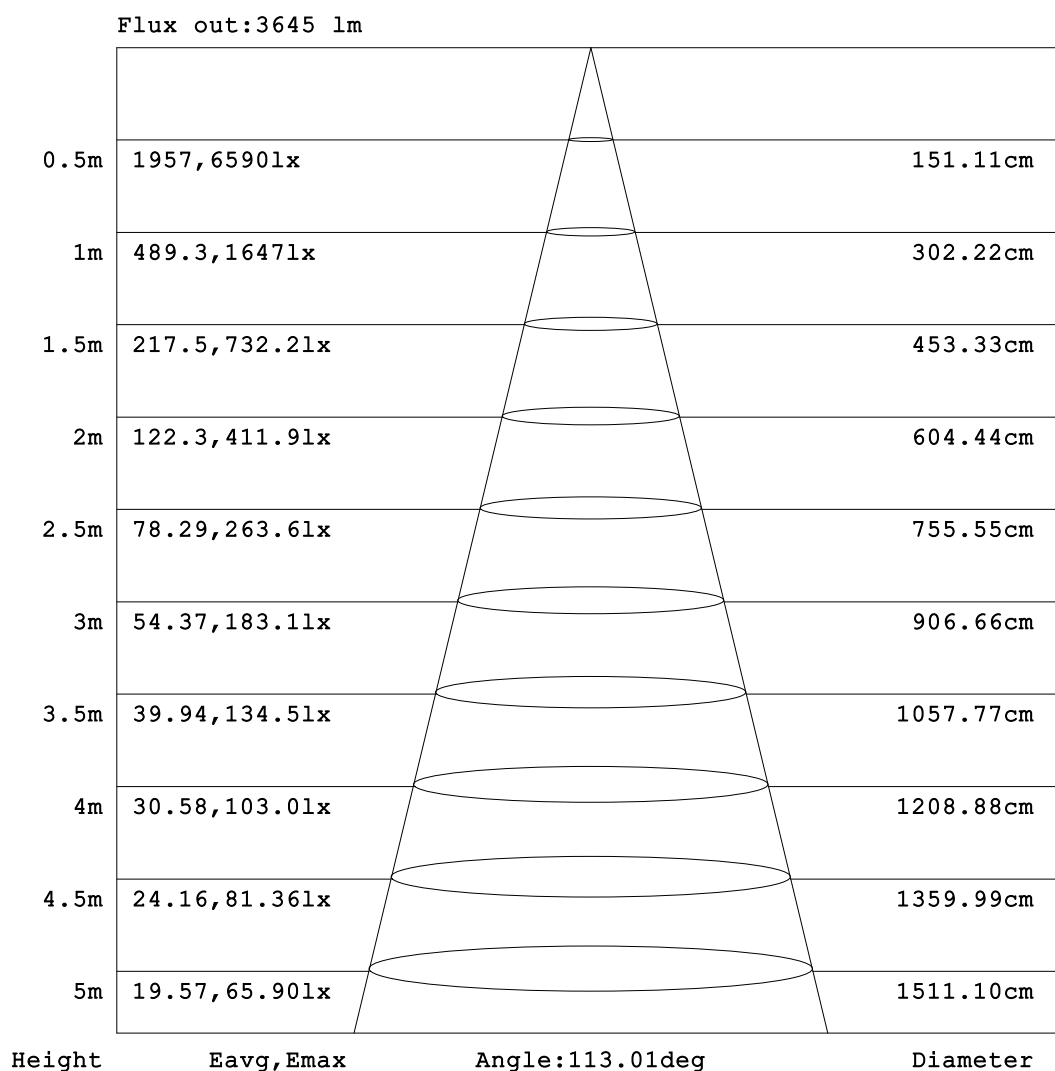


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

AAI Figure

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



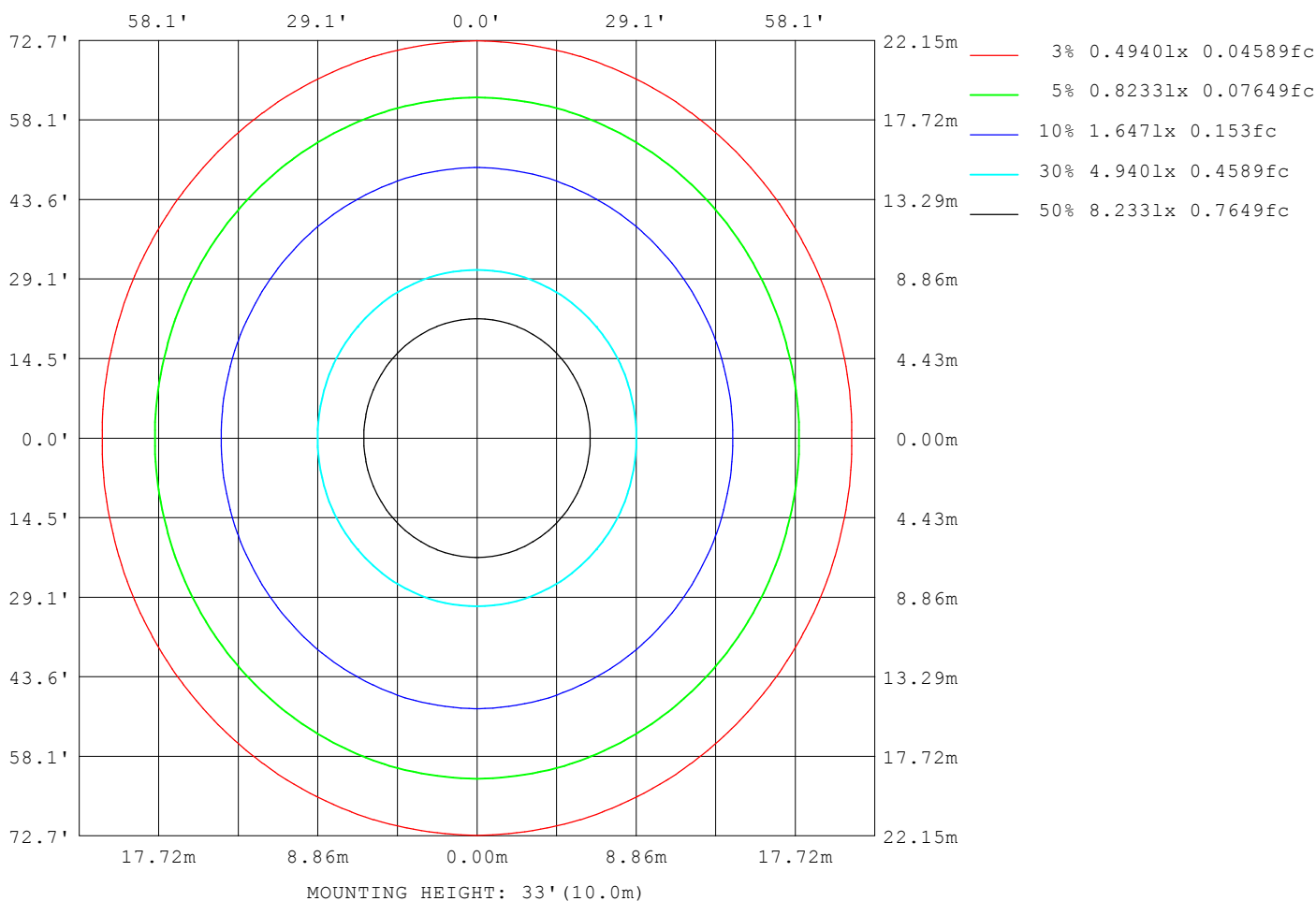
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

ISOLUX DIAGRAM

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

LED Avg.L Report

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

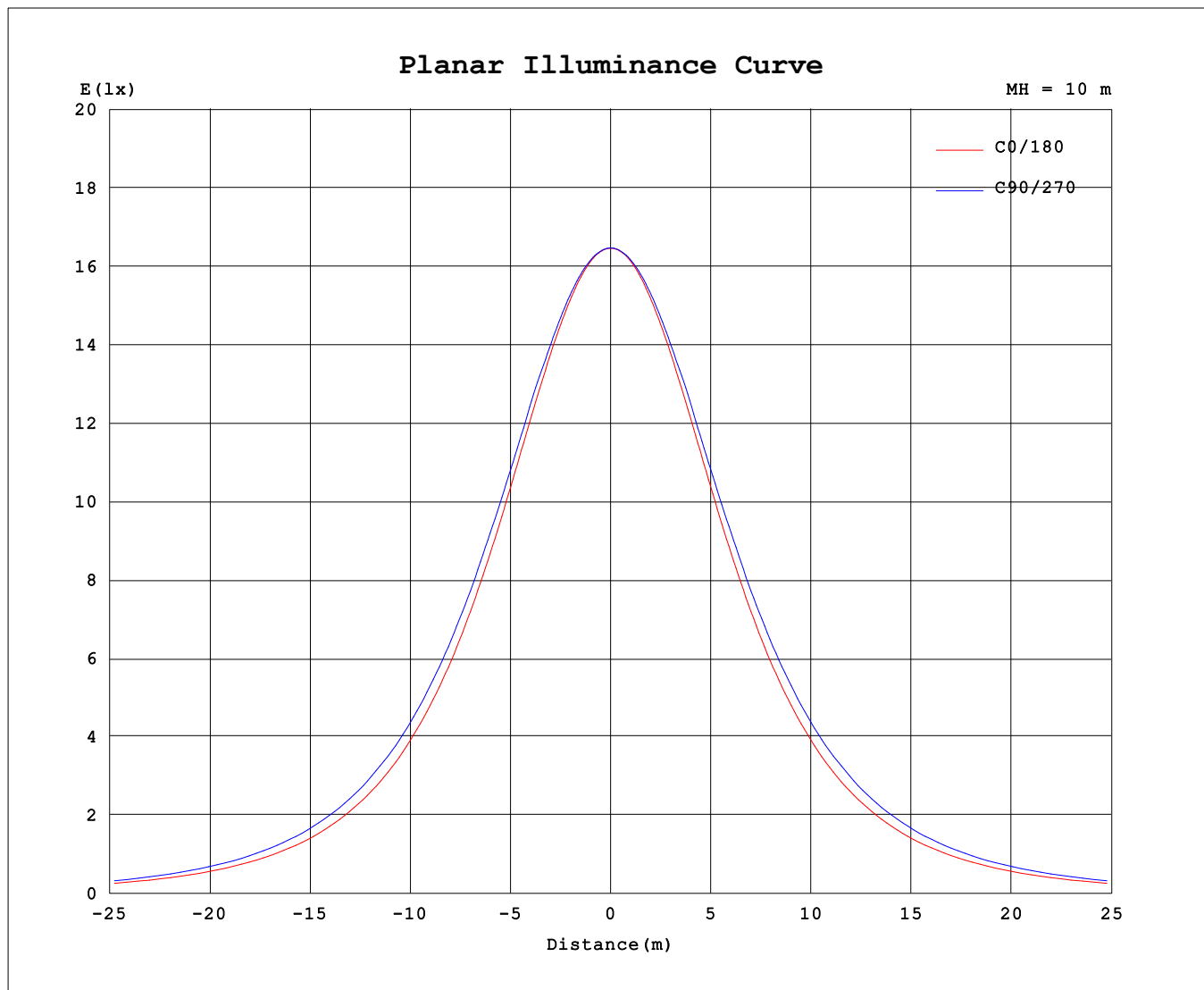
AvgL	cd/m2
L_0~180 (65) av	11841
L_0~180 (75) av	10194
L_0~180 (85) av	6173
L_90~270 (65) av	14501
L_90~270 (75) av	12937
L_90~270 (85) av	7693
L_45 (65) av	13011
L_45 (75) av	11367
L_45 (85) av	6863

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500l

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5	1640	1640	1641	1641	1642	1643	1642	1643	1642	1641	1641	1640	1640	1640	1641	1641	1642	1643	1642
10	1617	1619	1621	1623	1626	1628	1628	1628	1626	1623	1621	1619	1617	1619	1621	1623	1626	1628	1628
15	1582	1584	1588	1593	1599	1603	1604	1603	1599	1593	1588	1584	1582	1584	1588	1593	1599	1603	1604
20	1532	1536	1542	1552	1561	1571	1575	1571	1561	1552	1542	1536	1532	1536	1542	1552	1561	1571	1575
25	1471	1474	1484	1498	1516	1522	1526	1522	1516	1498	1484	1474	1471	1474	1484	1498	1516	1522	1526
30	1395	1401	1414	1437	1451	1466	1472	1466	1451	1437	1414	1401	1395	1401	1414	1437	1451	1466	1472
35	1309	1315	1331	1355	1380	1399	1404	1399	1380	1355	1331	1315	1309	1315	1331	1355	1380	1399	1404
40	1211	1219	1240	1266	1295	1318	1326	1318	1295	1266	1240	1219	1211	1219	1240	1266	1295	1318	1326
45	1105	1113	1137	1166	1198	1224	1234	1224	1198	1166	1137	1113	1105	1113	1137	1166	1198	1224	1234
50	989	997	1020	1056	1089	1121	1134	1121	1089	1056	1020	997	989	997	1020	1056	1089	1121	1134
55	864	873	896	931	971	997	1011	997	971	931	896	873	864	873	896	931	971	997	1011
60	734	741	764	796	833	864	878	864	833	796	764	741	734	741	764	796	833	864	878
65	594	602	623	653	688	719	727	719	688	653	623	602	594	602	623	653	688	719	727
70	455	459	477	503	532	556	566	556	532	503	477	459	455	459	477	503	532	556	566
75	313	318	330	349	371	390	397	390	371	349	330	318	313	318	330	349	371	390	397
80	181	182	190	201	214	225	229	225	214	201	190	182	181	182	190	201	214	225	229
85	63.9	64.9	67.2	71.0	75.2	78.4	79.6	78.4	75.2	71.0	67.2	64.9	63.9	64.9	67.2	71.0	75.2	78.4	79.6
90	4.07	2.97	2.83	2.75	2.42	2.57	2.18	2.57	2.42	2.75	2.83	2.97	4.07	2.97	2.83	2.75	2.42	2.57	2.18
95	0.69	0.67	0.63	0.58	0.46	0.27	0.23	0.27	0.46	0.58	0.63	0.67	0.69	0.67	0.63	0.58	0.46	0.27	0.23
100	0.85	0.82	0.79	0.72	0.65	0.45	0.38	0.45	0.65	0.72	0.79	0.82	0.85	0.82	0.79	0.72	0.65	0.45	0.38
105	0.95	0.91	0.90	0.87	0.78	0.56	0.48	0.56	0.78	0.87	0.90	0.91	0.95	0.91	0.90	0.87	0.78	0.56	0.48
110	1.04	1.06	1.03	0.99	0.90	0.67	0.58	0.67	0.90	0.99	1.03	1.06	1.04	1.06	1.03	0.99	0.90	0.67	0.58
115	1.18	1.19	1.16	1.11	1.01	0.79	0.66	0.79	1.01	1.11	1.16	1.19	1.18	1.19	1.16	1.11	1.01	0.79	0.66
120	1.31	1.31	1.28	1.22	1.11	0.90	0.78	0.90	1.11	1.22	1.28	1.31	1.31	1.31	1.28	1.22	1.11	0.90	0.78
125	1.42	1.44	1.41	1.32	1.23	1.07	0.93	1.07	1.23	1.32	1.41	1.44	1.42	1.44	1.41	1.32	1.23	1.07	0.93
130	1.66	1.71	1.63	1.54	1.48	1.28	1.17	1.28	1.48	1.54	1.63	1.71	1.66	1.71	1.63	1.54	1.48	1.28	1.17
135	1.97	1.99	1.89	1.82	1.74	1.54	1.45	1.54	1.74	1.82	1.89	1.99	1.97	1.99	1.89	1.82	1.74	1.54	1.45
140	2.37	2.37	2.27	2.20	2.09	1.88	1.82	1.88	2.09	2.20	2.27	2.37	2.37	2.37	2.27	2.20	2.09	1.88	1.82
145	2.81	2.78	2.75	2.59	2.42	2.25	2.20	2.25	2.42	2.59	2.75	2.78	2.81	2.78	2.75	2.59	2.42	2.25	2.20
150	3.22	3.15	3.07	2.90	2.69	2.59	2.55	2.59	2.69	2.90	3.07	3.15	3.22	3.15	3.07	2.90	2.69	2.59	2.55
155	3.44	3.35	3.24	3.10	2.84	2.81	2.78	2.81	2.84	3.10	3.24	3.35	3.44	3.35	3.24	3.10	2.84	2.81	2.78
160	3.45	3.38	3.23	3.05	2.97	2.89	2.87	2.89	2.97	3.05	3.23	3.38	3.45	3.38	3.23	3.05	2.97	2.89	2.87
165	3.35	3.28	3.15	3.02	2.94	2.91	2.90	2.91	2.94	3.02	3.15	3.28	3.35	3.28	3.15	3.02	2.94	2.91	2.90
170	3.27	3.24	3.14	3.04	2.98	2.95	2.94	2.95	2.98	3.04	3.14	3.24	3.27	3.24	3.14	3.04	2.98	2.95	2.94
175	3.22	3.23	3.15	3.07	3.01	2.98	2.96	2.98	3.01	3.07	3.15	3.23	3.22	3.23	3.15	3.07	3.01	2.98	2.96
180	3.36	3.28	3.18	3.11	3.06	3.01	2.99	3.01	3.06	3.11	3.18	3.28	3.36	3.28	3.18	3.11	3.06	3.01	2.99

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.3344A P:39.816W PF:0.9930 Freq:60.01Hz Lamp Flux:5000.68x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	1647	1647	1647	1647	1647													
5	1643	1642	1641	1641	1640													
10	1628	1626	1623	1621	1619													
15	1603	1599	1593	1588	1584													
20	1571	1561	1552	1542	1536													
25	1522	1516	1498	1484	1474													
30	1466	1451	1437	1414	1401													
35	1399	1380	1355	1331	1315													
40	1318	1295	1266	1240	1219													
45	1224	1198	1166	1137	1113													
50	1121	1089	1056	1020	997													
55	997	971	931	896	873													
60	864	833	796	764	741													
65	719	688	653	623	602													
70	556	532	503	477	459													
75	390	371	349	330	318													
80	225	214	201	190	182													
85	78.4	75.2	71.0	67.2	64.9													
90	2.57	2.42	2.75	2.83	2.97													
95	0.27	0.46	0.58	0.63	0.67													
100	0.45	0.65	0.72	0.79	0.82													
105	0.56	0.78	0.87	0.90	0.91													
110	0.67	0.90	0.99	1.03	1.06													
115	0.79	1.01	1.11	1.16	1.19													
120	0.90	1.11	1.22	1.28	1.31													
125	1.07	1.23	1.32	1.41	1.44													
130	1.28	1.48	1.54	1.63	1.71													
135	1.54	1.74	1.82	1.89	1.99													
140	1.88	2.09	2.20	2.27	2.37													
145	2.25	2.42	2.59	2.75	2.78													
150	2.59	2.69	2.90	3.07	3.15													
155	2.81	2.84	3.10	3.24	3.35													
160	2.89	2.97	3.05	3.23	3.38													
165	2.91	2.94	3.02	3.15	3.28													
170	2.95	2.98	3.04	3.14	3.24													
175	2.98	3.01	3.07	3.15	3.23													
180	3.01	3.06	3.11	3.18	3.28													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500: